



Title: Improved Article with Lubricated Surface and Method
Inventors: Vinay G. Sakhrani, Joel L. Williams, Charles Tomasino, and Paul M. Vernon, Jr.
Attorney and Contact: David P. Hendricks, Reg. No. 53,014, (919) 831-1845, Docket No. TFR-001
Sheet 1/14

**10 cc Plastic Syringes, 10% Fomblin M100
Infusion Rate 1 cc/min**

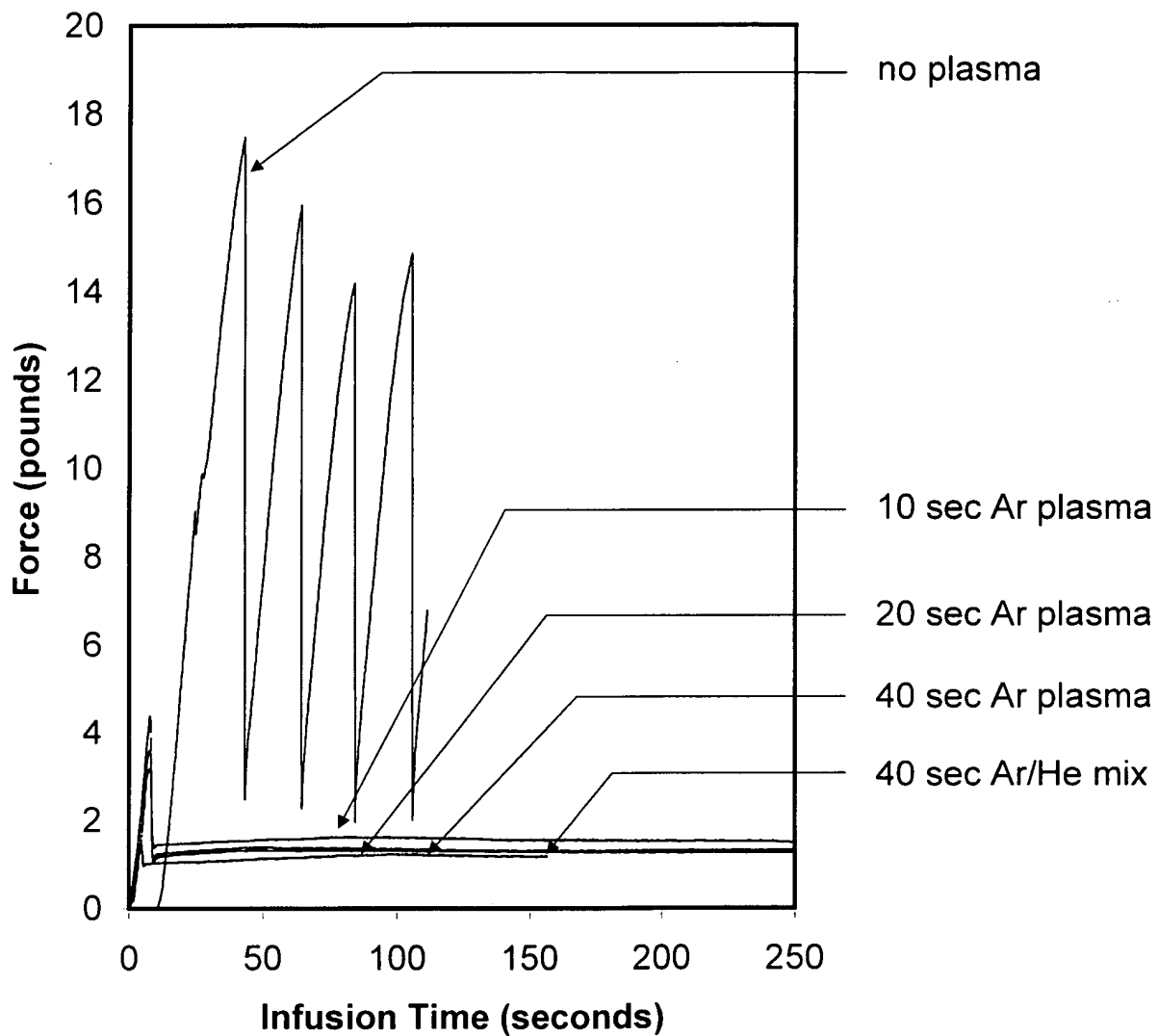


FIG. 1



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Sheet 2/14

**10 cc Plastic Syringes, 10% Fomblin M100
Infusion Rate 1 cc/min**

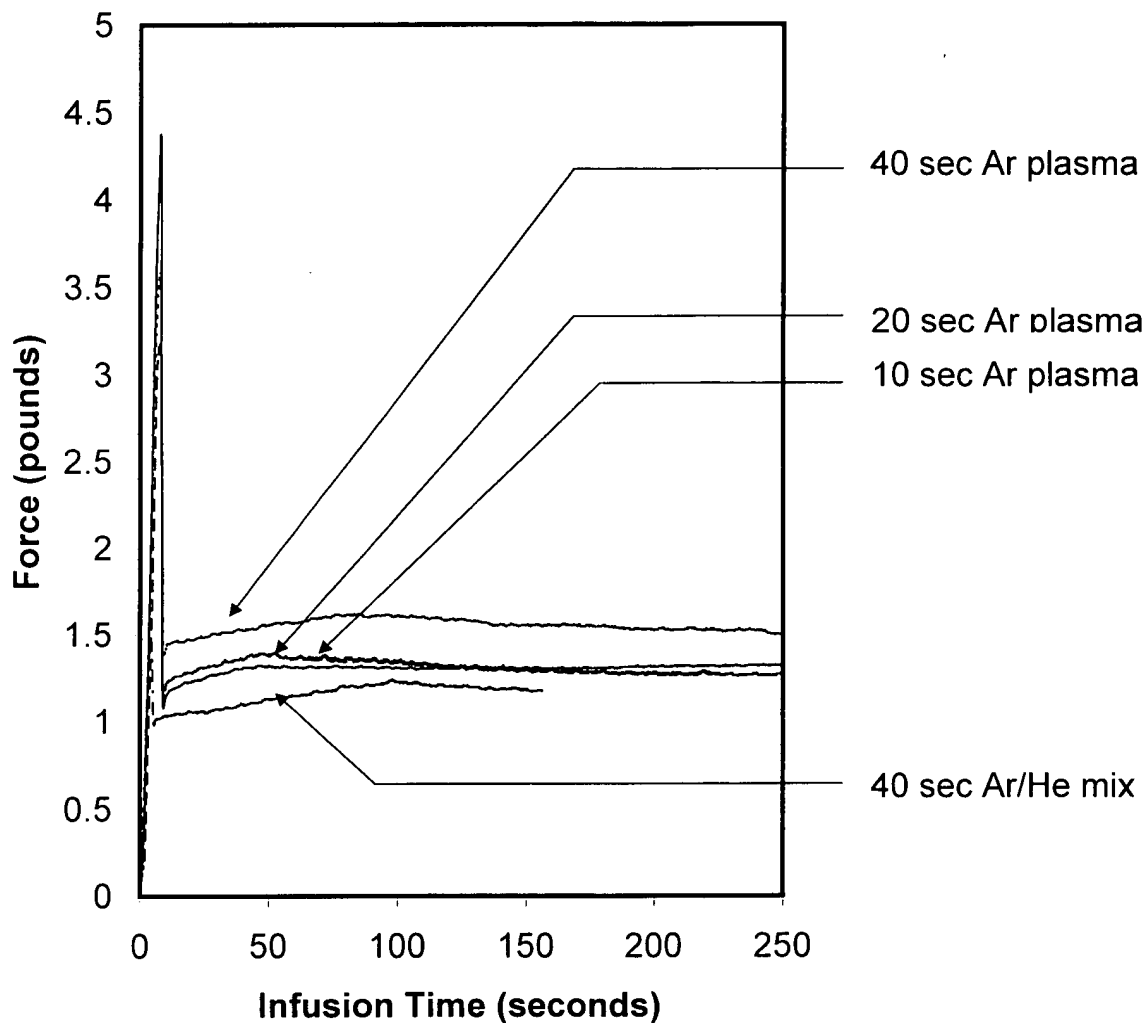


FIG. 2



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Sheet 3/14

**10 cc Plastic Syringes, 10% Fomblin M30
Infusion Rate 3 cc/min**

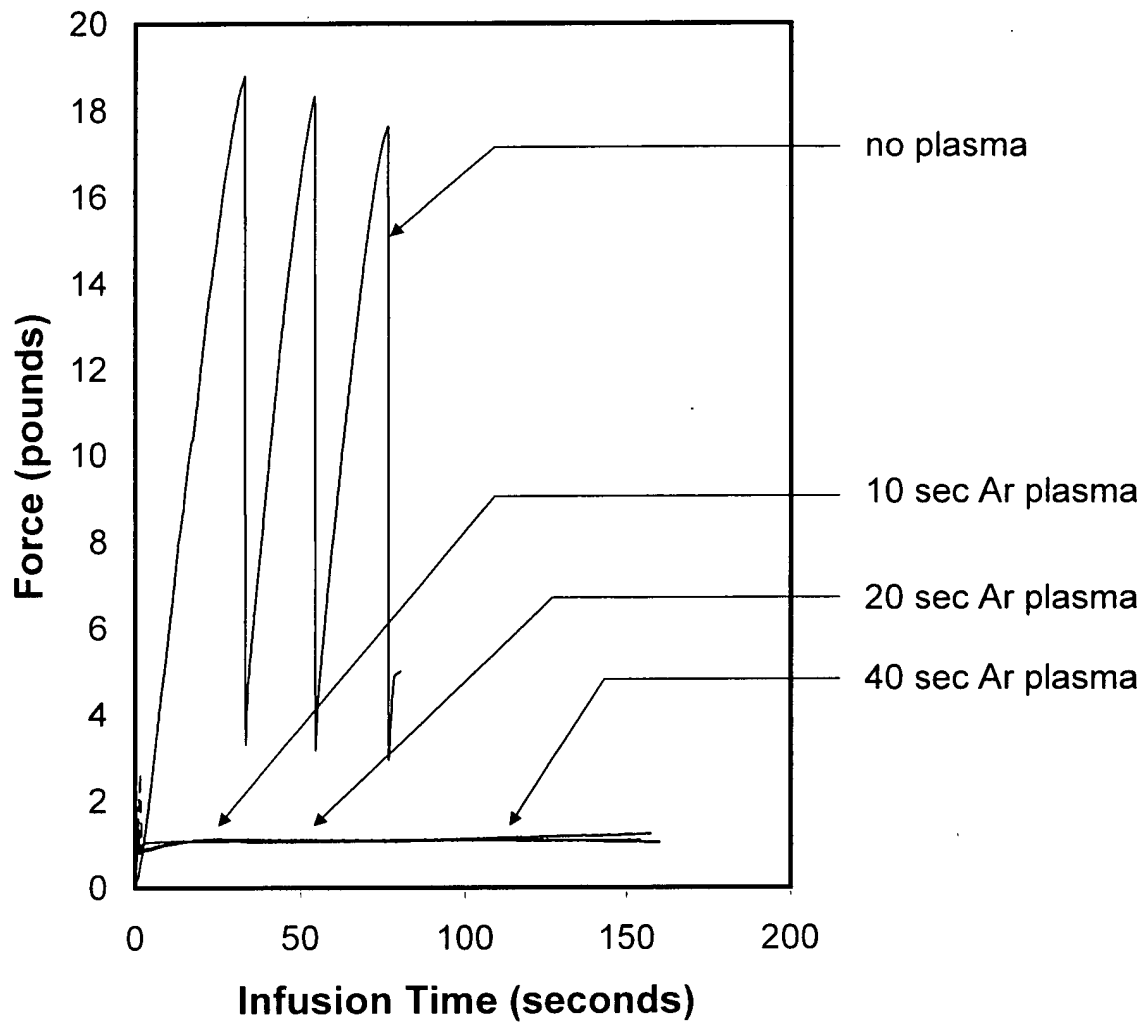


FIG. 3



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Sheet 4/14

**10 cc Plastic Syringes, 5% Fomblin YR
Infusion Rate 1 cc/min**

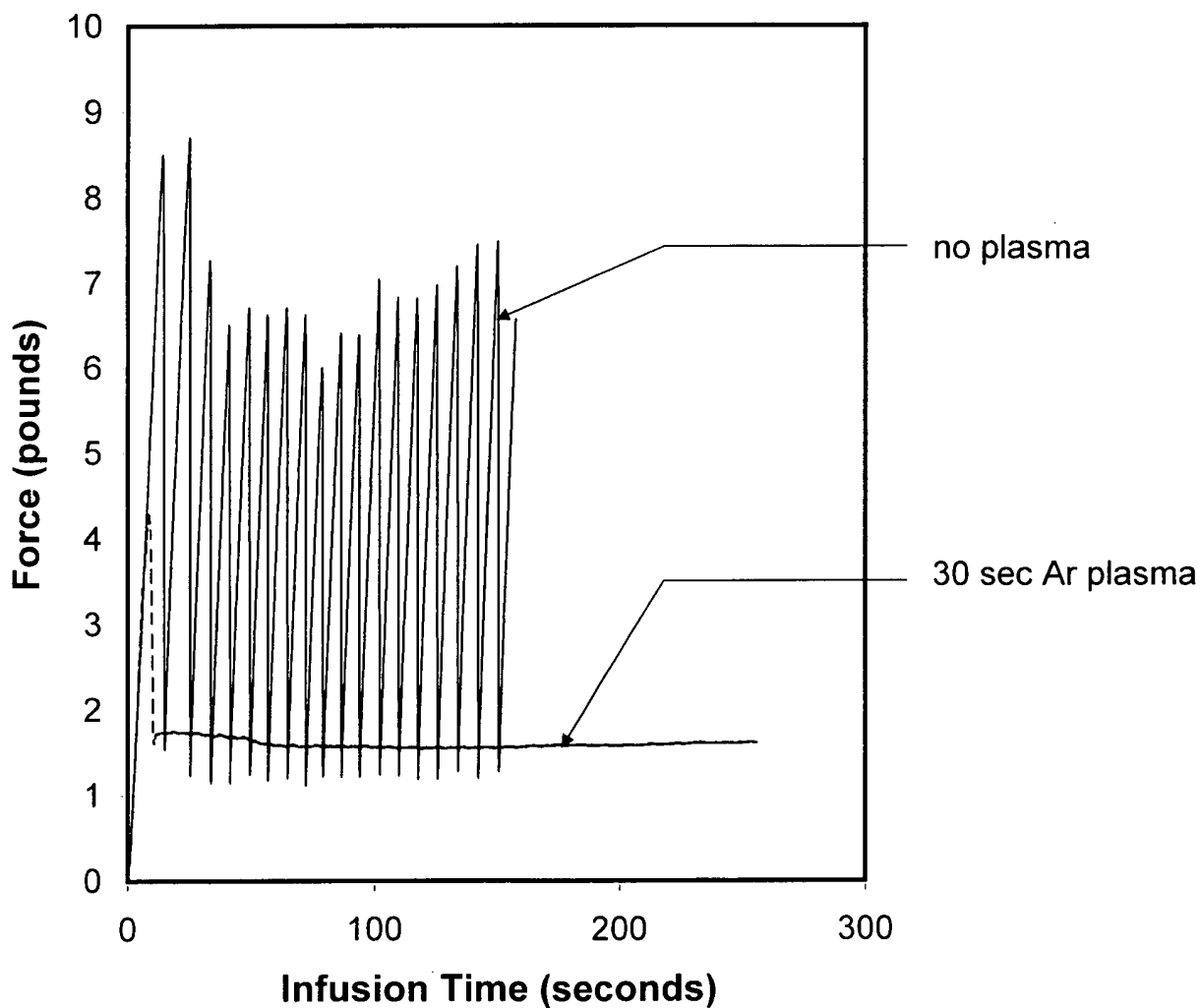


FIG. 4



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Sheet 5/14

**10 cc Plastic Syringes, 10% Fomblin M100
1 Week Parked**

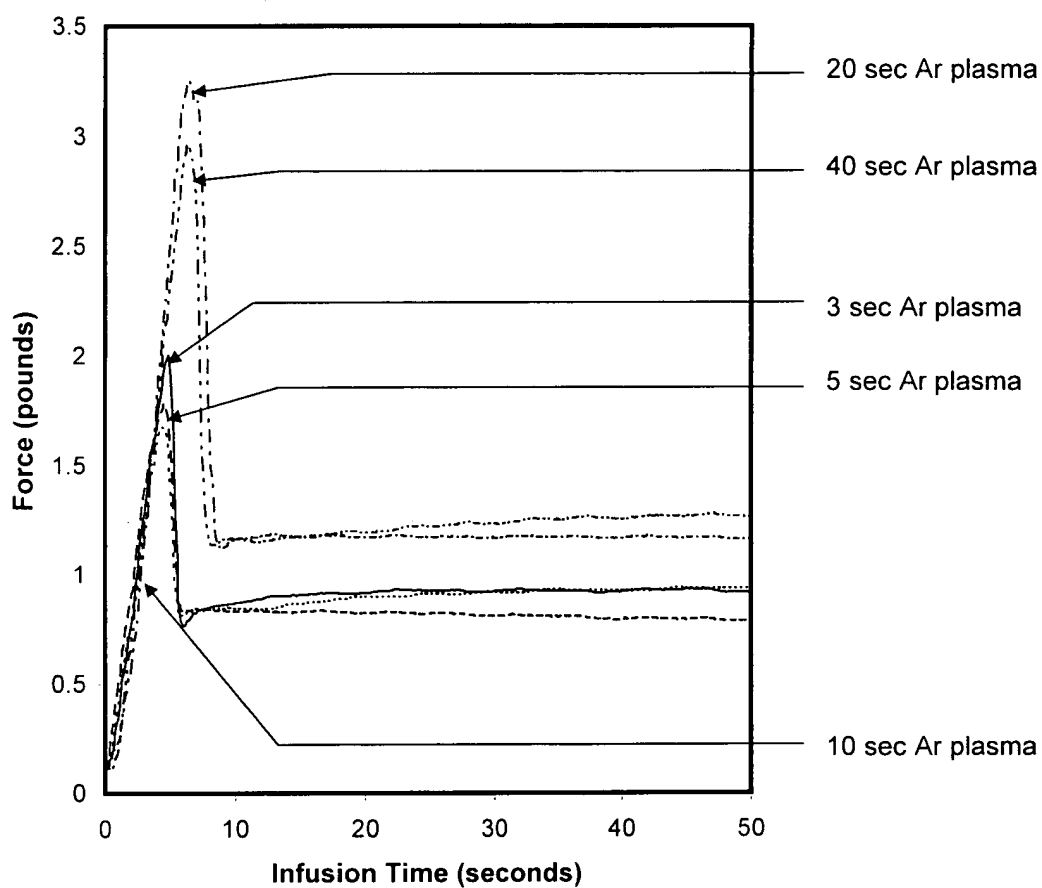


FIG. 5



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Sheet 6/14

**Break-out Force and Sliding Force for Various
Argon Atmospheric Plasma Treatment Times**

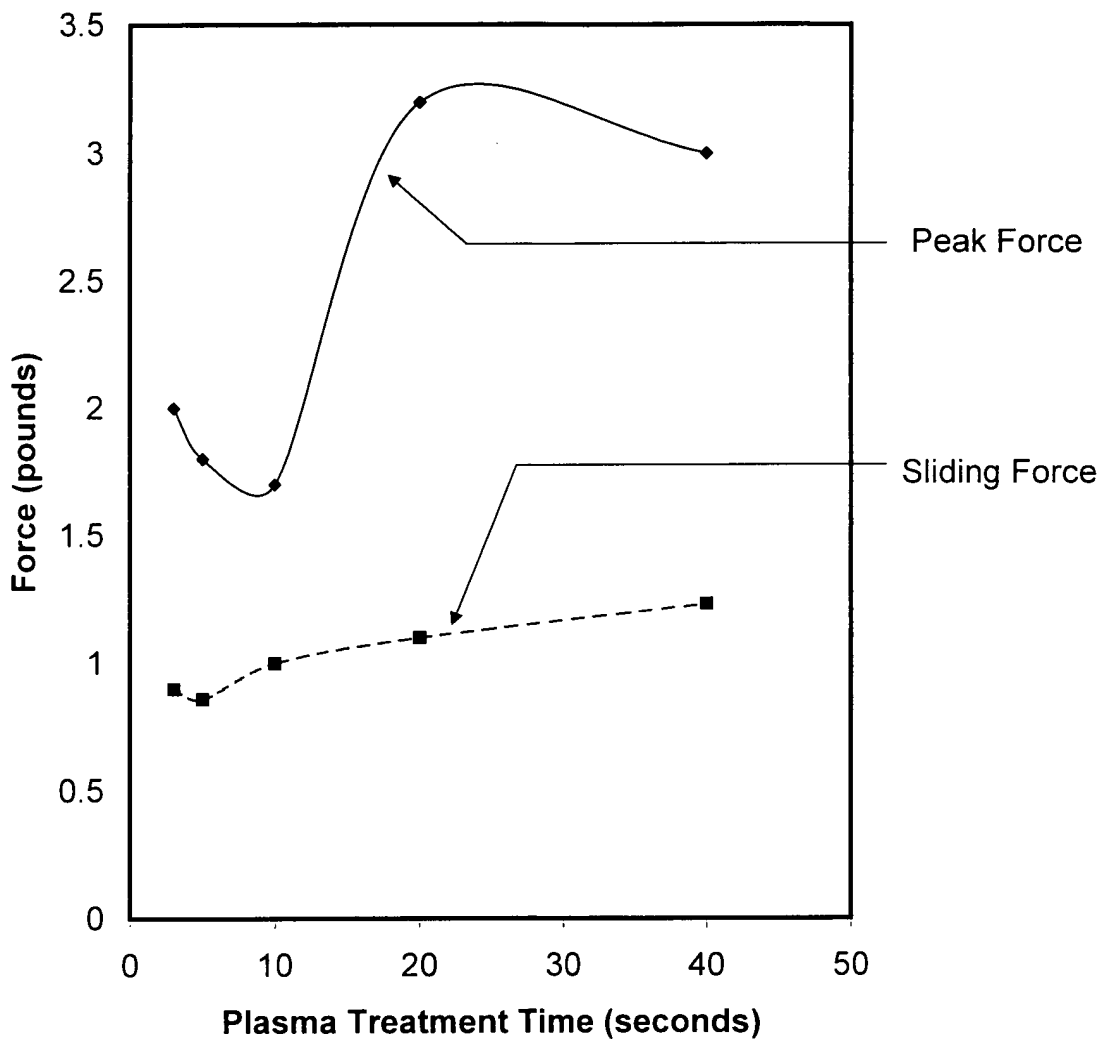


FIG. 6



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Sheet 7/14

**10 cc Plastic Syringes, Silicone Oil
Infusion Rate 3 cc/min**

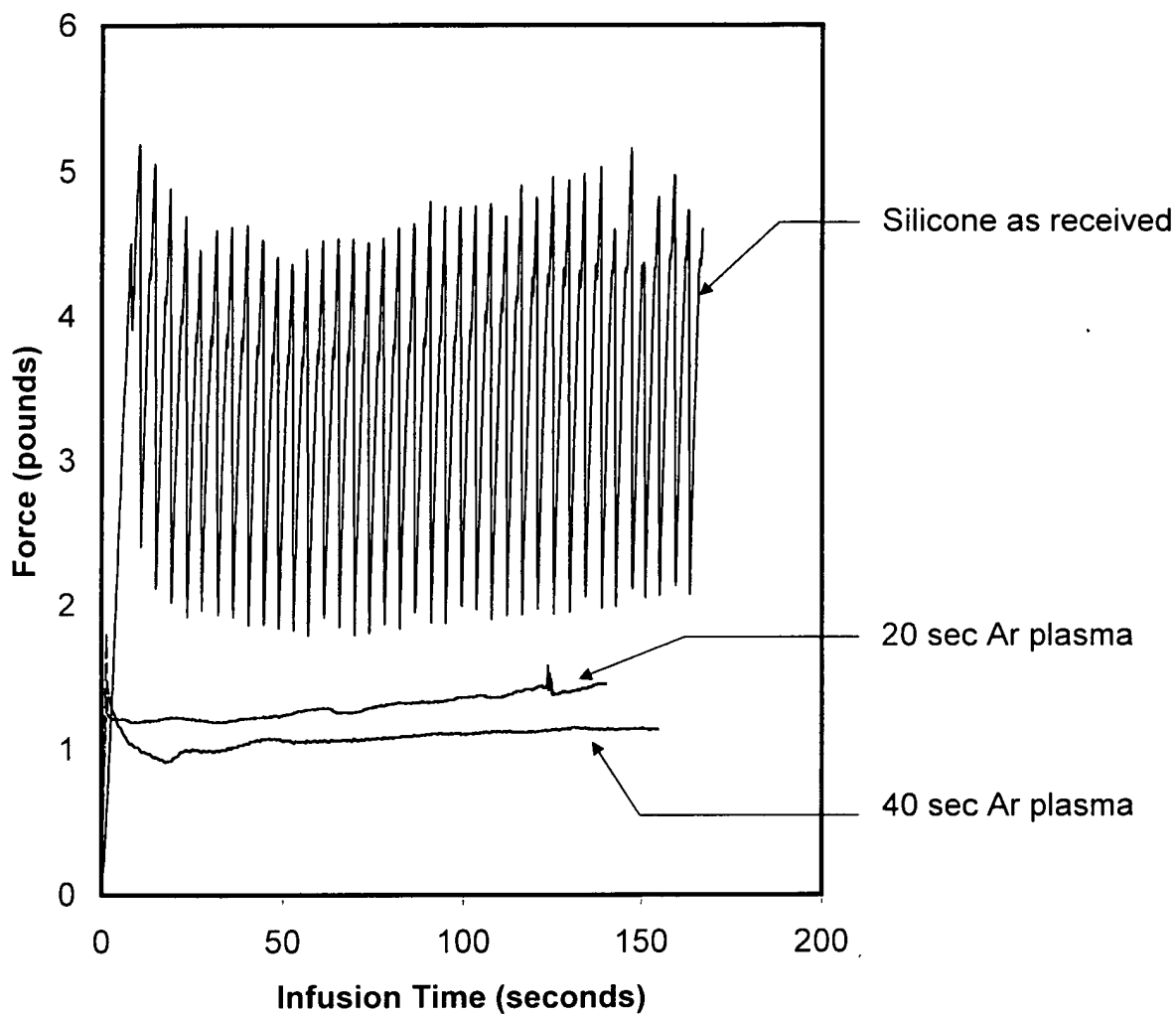


FIG. 7



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Sheet 8/14

**Penetration Force for 25 Gauge Syringe Needles at 2 inches/min
Perfluoropolyether Lubricant**

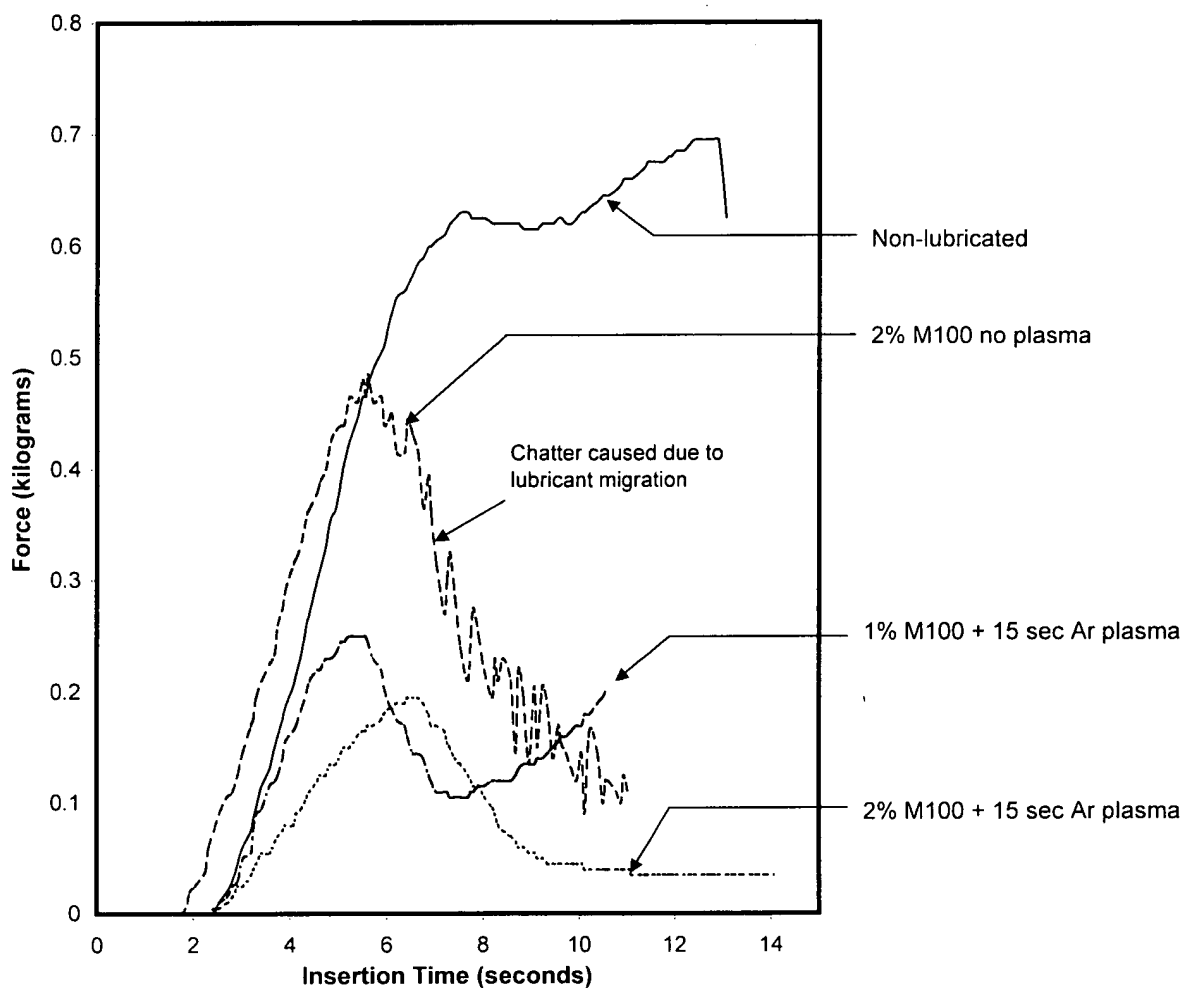


FIG. 8



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Sheet 9/14

**Penetration Force for 21 Gauge Needles Into
20 mm Stoppers at 2 inches/min**

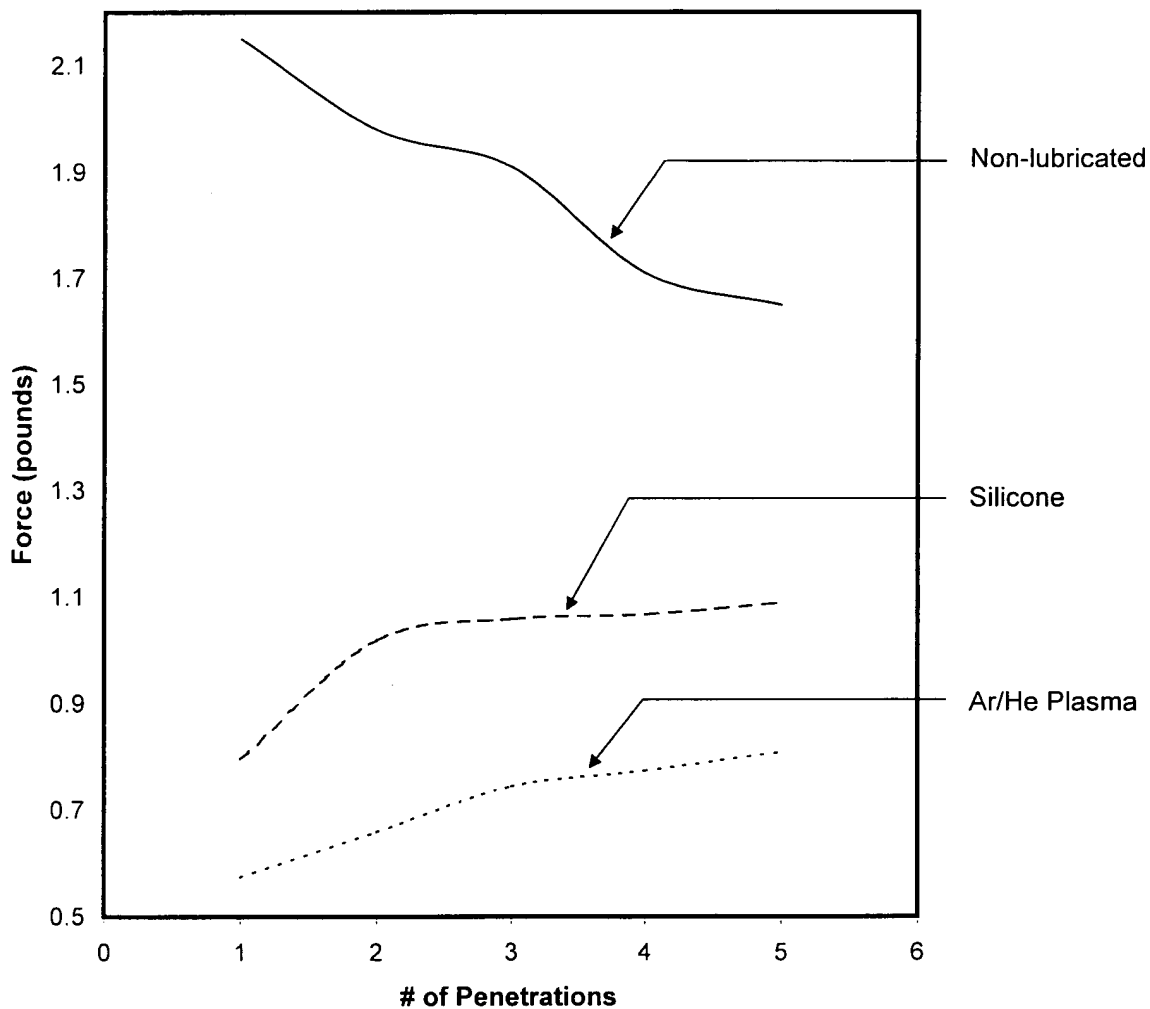


FIG. 9



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Sheet 10/14

**10 cc Glass Syringes, Deionized Water, 23 Gauge Cannula
3 Days Park Time, 0.5 cc/min**

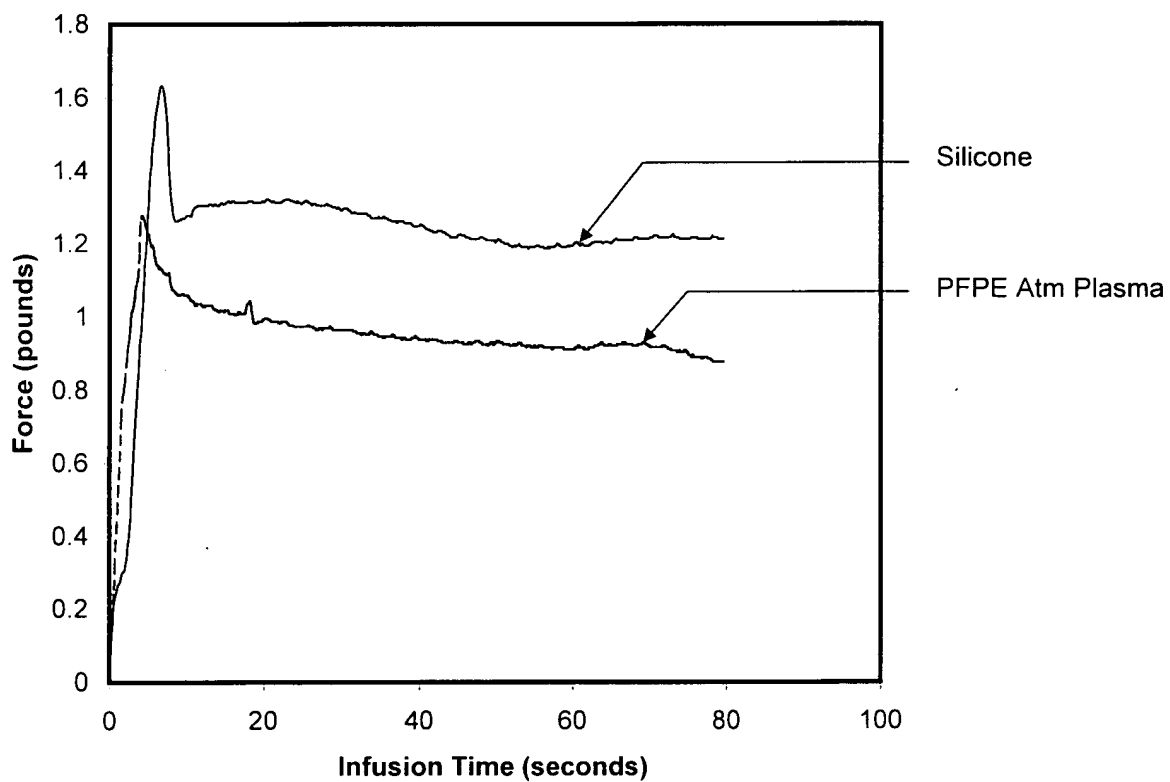


FIG. 10



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Sheet 11/14

**Peak Force vs. Infusion Rate, 150 cc Contrast Media Syringes
With PFPE Lubricant System
Viscosity of Infusion Medium ~ 70 cP**

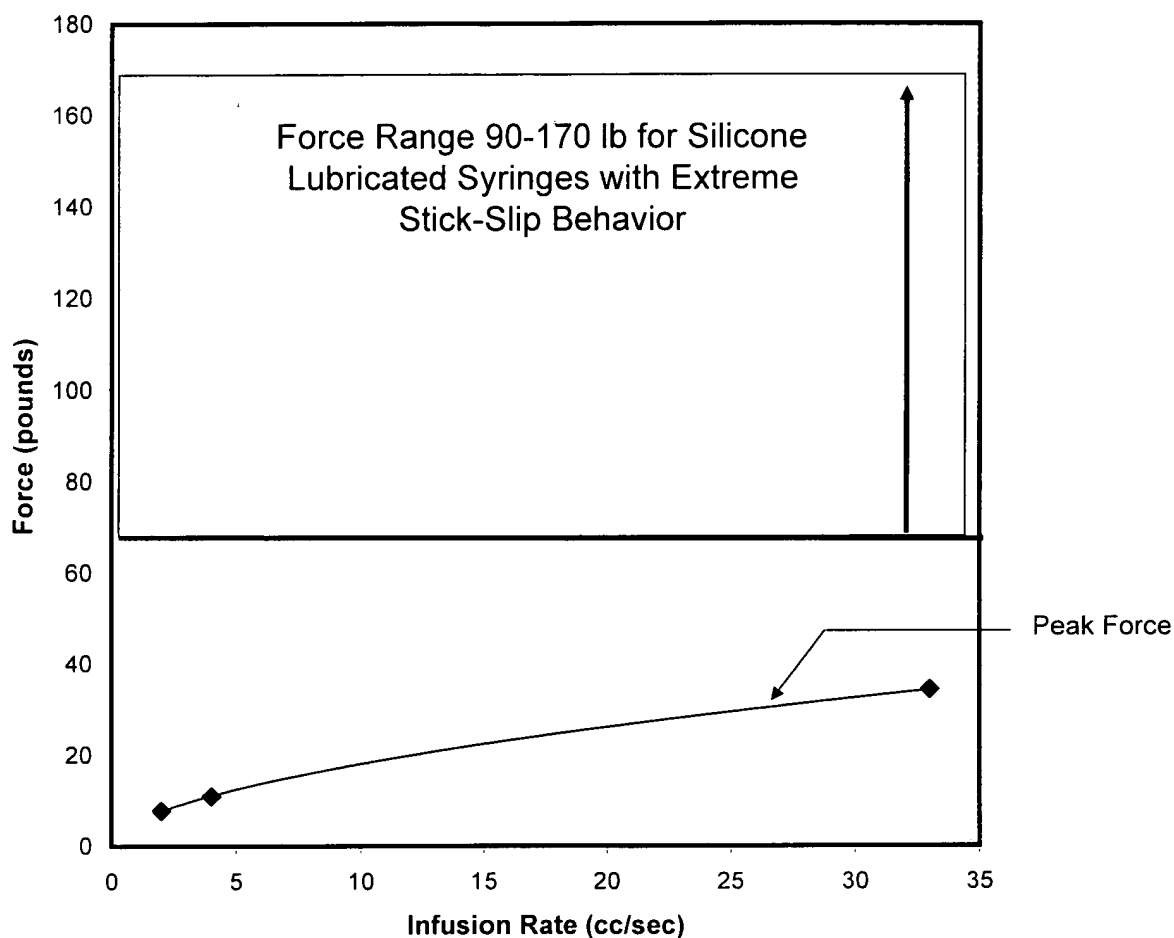


FIG. 11



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Sheet 12/14

**10 cc Polypropylene Syringes, 7.5 wt.% Fomblin M100
1 cc/min Infusion Rate of Deionized Water**

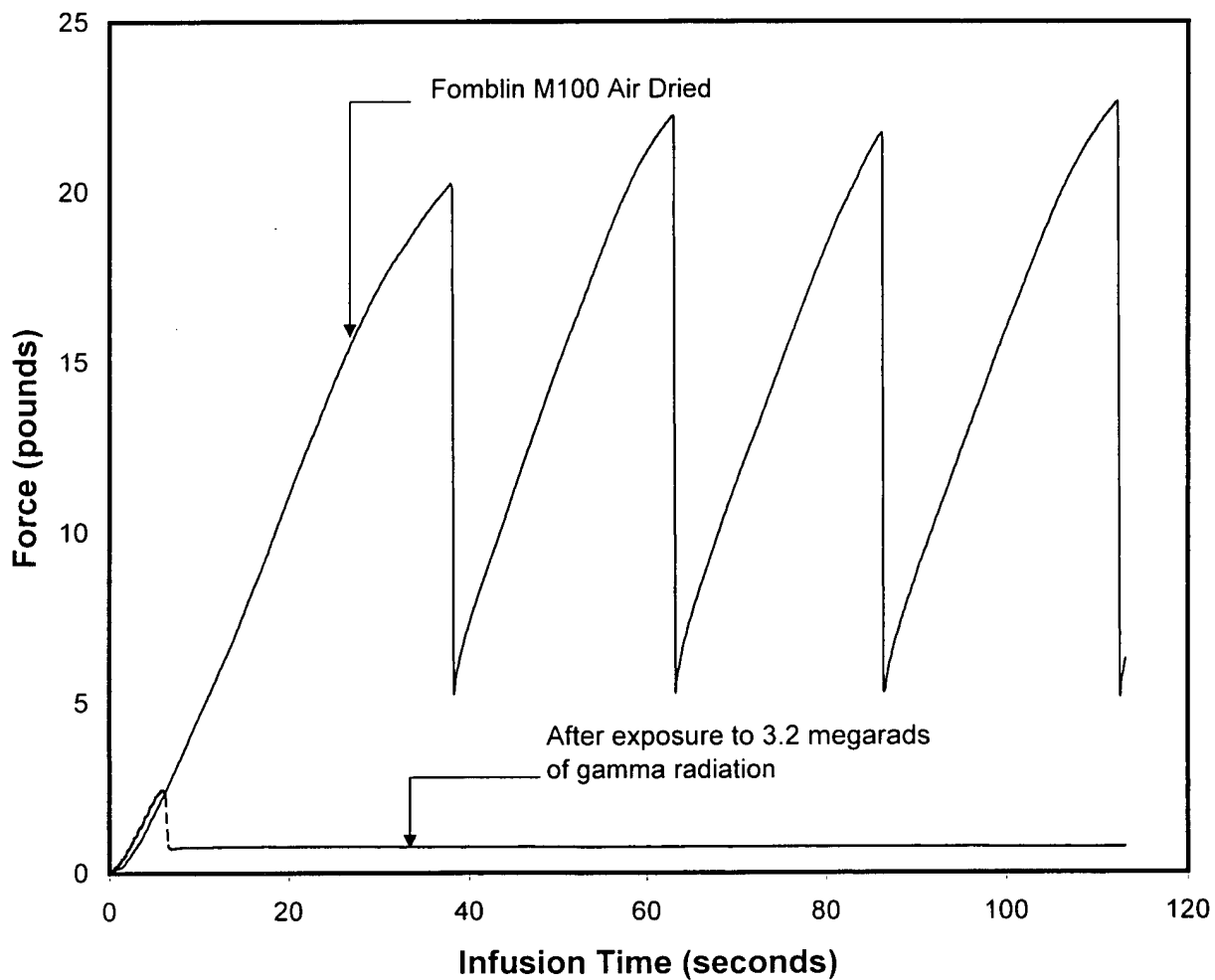


FIG. 12



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Sheet 13/14

**10 cc Polypropylene Syringes, 7.5 wt.% Fomblin M100
10 cc/min Infusion Rate of Deionized Water**

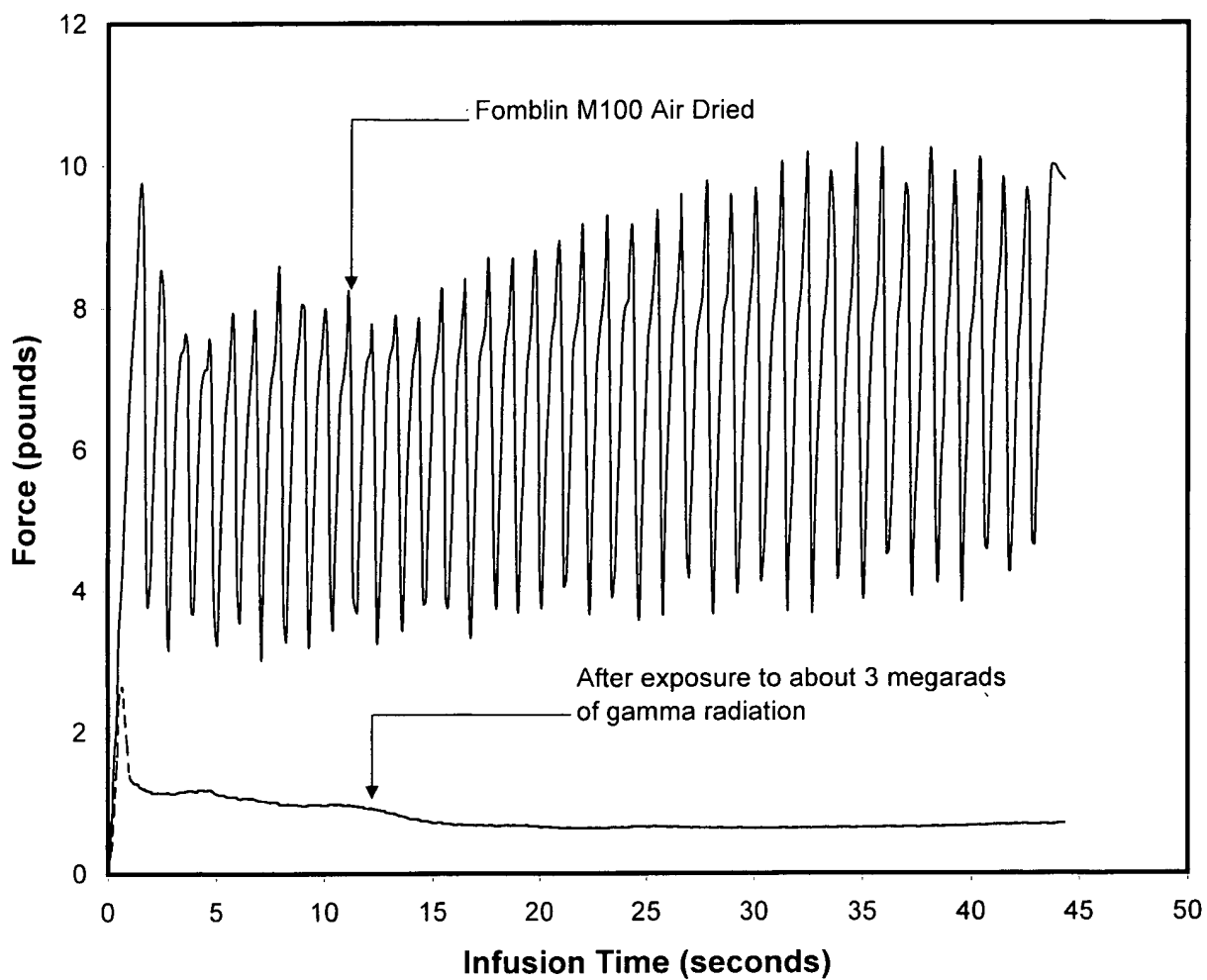


FIG. 13



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Sheet 14/14

**1 cc Glass Syringes, 20 wt.% Fomblin M03
1 cc/min Infusion Rate of Deionized Water**

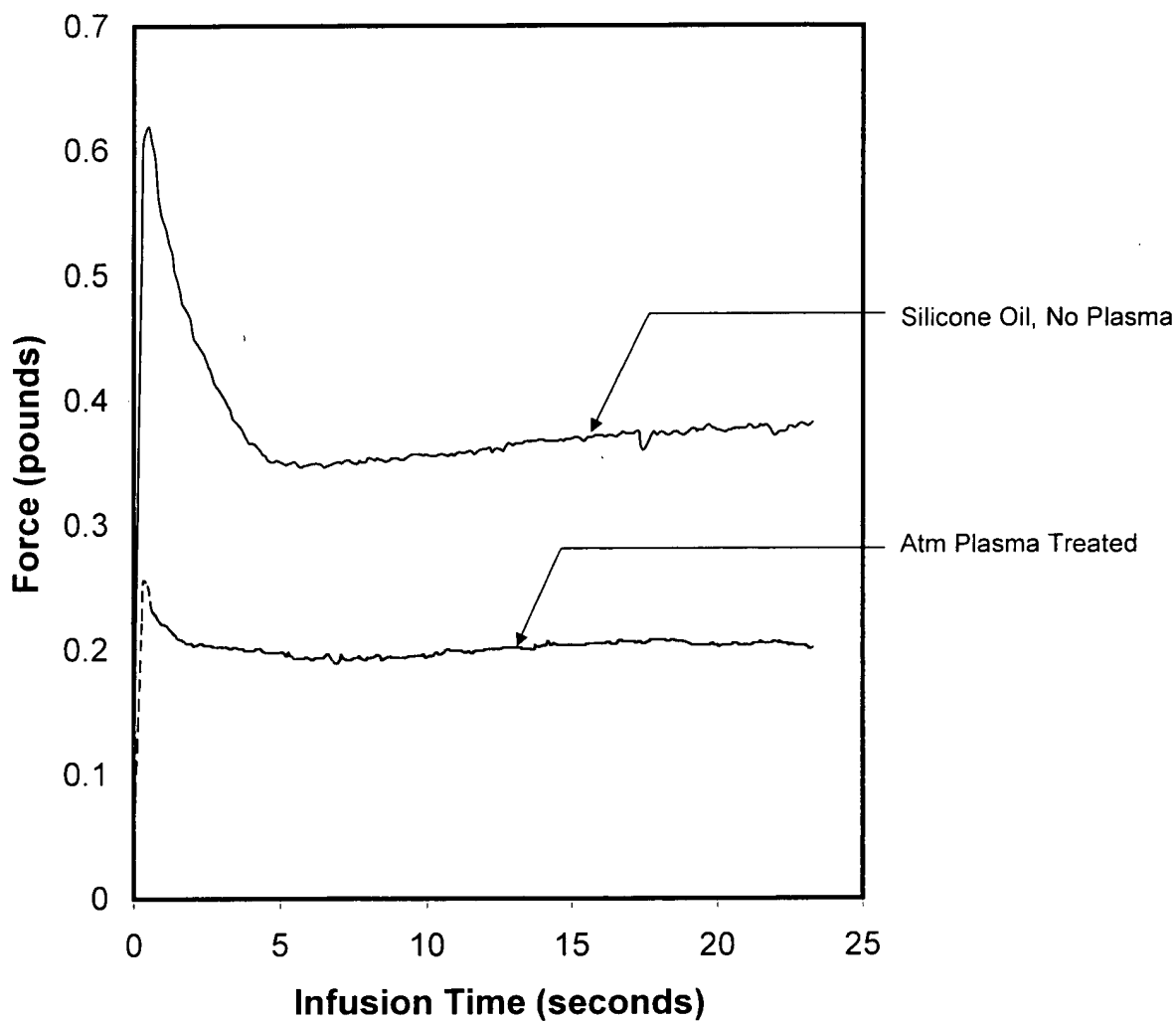


FIG. 14